TOUCH SCREEN WEATHER STATION
(WIND AND AIR PRESSURE) TP1080WC

Operation Manual

About this manual

Thank you and congratulations on selecting this professional weather station! We are positive you will enjoy the benefits of accurate weather readings and the precise radio controlled time information that our instruments offer.
This manual will guide you step-by-step through setting up your TP1080WC device. Use this manual to become familiar with your professional weather station, and save it for future reference.

Glossary of Common Terms

WWVB
The WWVB time signal is an AM modulated time-of-day signal broadcasted by the NIST from USA.
The time base is generated from an atomic time generator which is accurate to 10 billions of one second.

LCD
"LCD" is an acronym for "Liquid Crystal Display". This is a common type of display screen used in televisions, computers, watches, and digital clocks.

BAROMETER & BAROMETRIC PRESSURE
A barometer is a device that measures the pressure of the air pushing on it—this measurement is called the barometric pressure. We don't actually feel the barometric pressure because the air pressure is pushing equally in every direction.

RELATIVE AIR PRESSURE
Relative air pressure is the same as the barometric pressure. The calculation of relative air pressure is a combination of the absolute air pressure and the altitude.

ABSOLUTE AIR PRESSURE
Absolute air pressure is the actual air pressure on the barometer without regard to altitude.

INCHES OF MERCURY (inHg)
Inches of Mercury is the common unit of measurement for air pressure in the United States.

HECTOPASCALS (hPa)
Hectopascals are the common units of measurement for air pressure in the International System (SI) of measurement. The hectopascal holds the same value

Important Note:

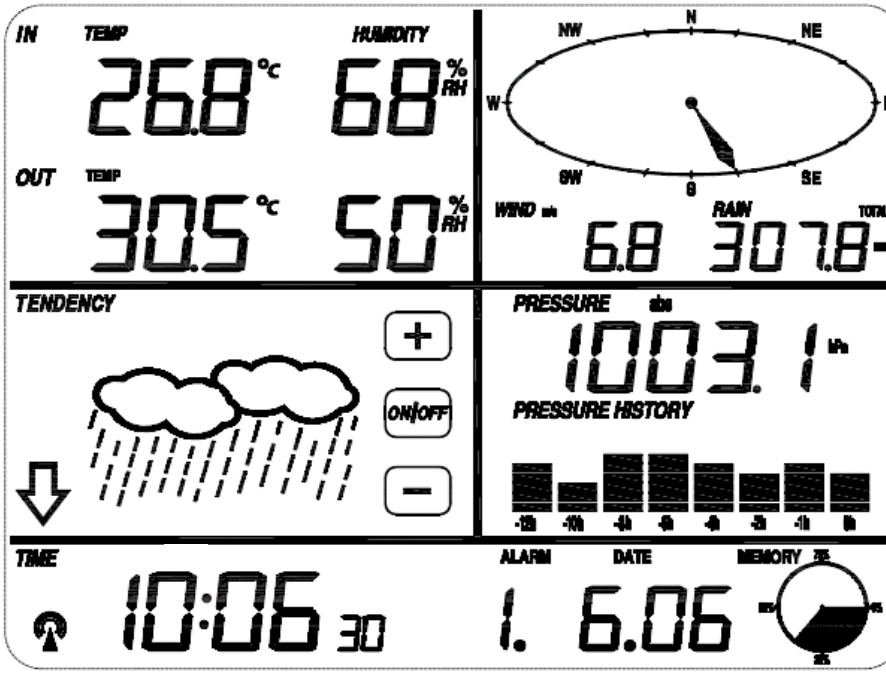
Before inserting batteries, please carefully read the operation manual.

The weather station TP1080WC includes a touch screen display console (receiver), a transmitter unit, one wind direction sensor, one wind speed sensor, one rain gauge, USB cable and a PC software package on CD-ROM.

The Display Console is equipped with a Touch Screen LCD Monitor and allows the display of a large variety of time and weather data.

Left Top LCD:	IN-OUT temperature and humidity
Right Top LCD:	Wind and Rain measurement
Left Middle LCD:	Weather Forecast(Tendency)
Right Middle LCD:	Air Pressure and Air Pressure History
Bottom Line LCD:	Time and Date, Memory Data Usage

Note: The presence of the "Alarm-On icon" in the section means that the particular alarm has been enabled.



An added feature of the Weather Station is the readout of all measured and displayed time and weather data on a PC.

Important Operation Notes

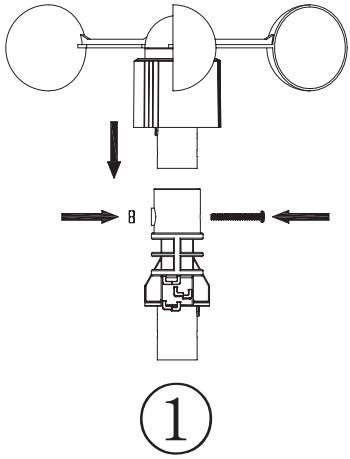
All actions and functions of the weather station are started on the touch screen by slightly touching(not pressing!) the related areas, touch the flashing [+], [ON/OFF] or [−] to make the corresponding selection or increase the value.

Every time a programming step is activated by touching a switching area on the Touch Screen a tone will sound , and the back light is switched on for a few seconds as well.

If no areas are pressed for 30 seconds, the LCD will automatically revert to the normal display mode (automatic time out).

Getting Started

Setup Sensors



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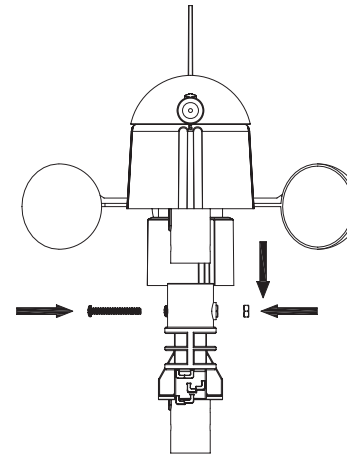

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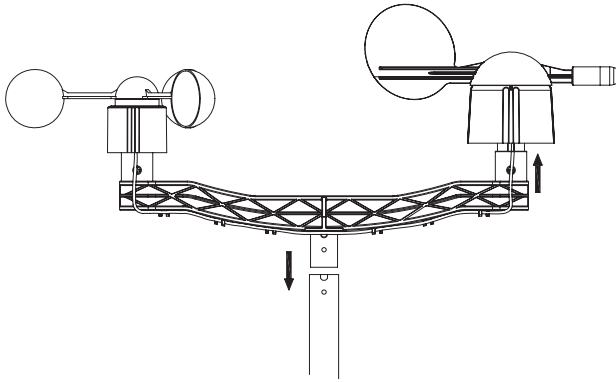

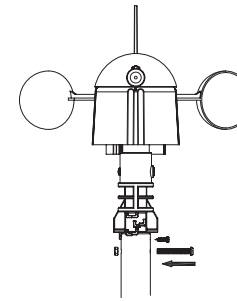

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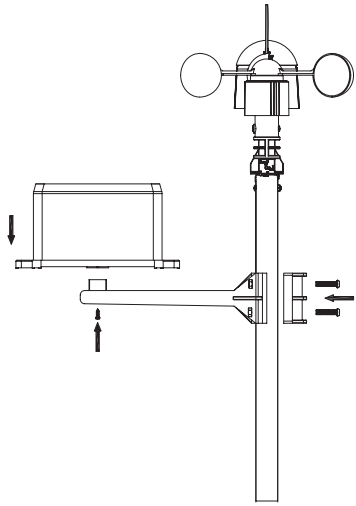

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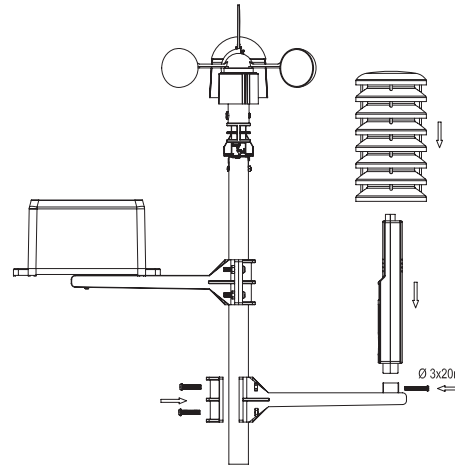

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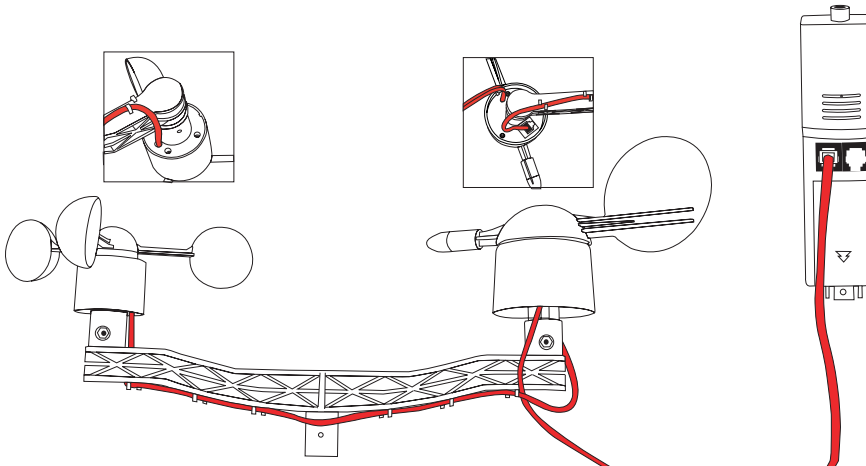

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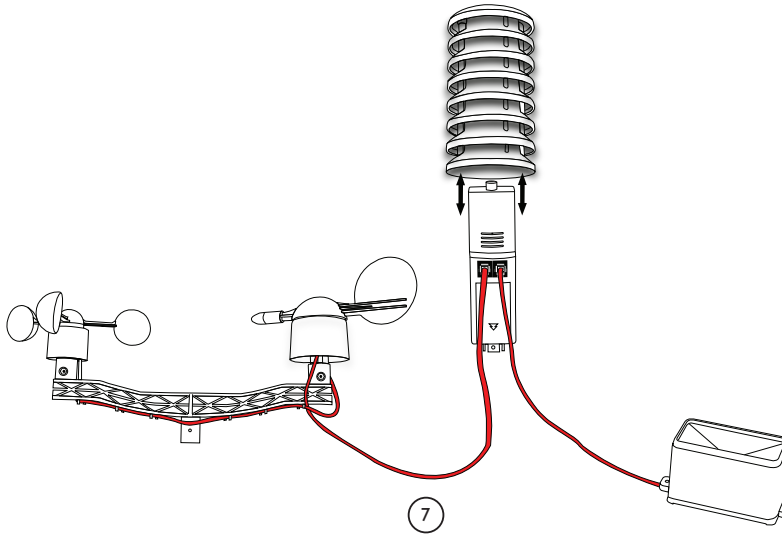

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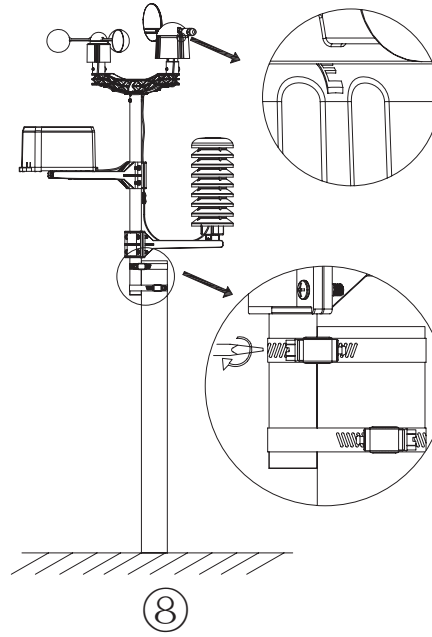

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Important Notes:

On the edge of wind direction sensor, there are four alphabet letter of “N”,”E”,”S”and “W” representing for the direction of North, East, South and West. Wind direction sensor has to be adjusted so that the directions on the sensor are matching with your real location. Permanent wind direction error will be introduced when the wind direction sensor is not positioned correctly during installation.

Wind speed sensor wire has to be inserted into the phone jacket on wind direction sensor.

Wind direction sensor wire has to be inserted into the phone jacket located on the transmitter with marking of “Wind” on top.

The rain sensor wire has to be inserted into the phone jacket located on the transmitter with marking of “Rain” on top.

System Start

Insert two pieces of LR6(AA size) batteries into the transmitter, the LED located in the middle front case of transmitter will be turned on for 4 seconds, then it will be off and start to work normally. The transmitter will make a data transmission and then start radio controlled time reception routine. If time signal can be detected correctly, then the LED will start to flash 5 times indicating time signal has been found correctly. When time signal is bad and reception is not possible, the transmitter will terminate radio controlled time reception within one minute and resume normal mode. When there is a data transmission happened, the LED will be on for 20ms. During radio controlled time reception period, there is no transmission and normal transmission will only resume after time reception routine is complete. The longest time for radio controlled time reception is 5 minutes.

After inserting the batteries into the Display Console, all LCD segments will be turned on for a few seconds, all possible display segments are turned on for checking.

After this, the Display Console will make initial measurement and start to register the transmitter (the radio reception icon will be turned on). Before there is outdoor data received, it is not allowed to touch the LCD, otherwise the outdoor sensor learning mode will be terminated right after the touch of LCD. When outdoor transmitter has been registered, the Touch Screen Display Console will automatically switch to the normal display mode from which all further settings can be performed by the user.

If no RCC signal is detected in the initial setup, the transmitter will try once every hour to get an RCC signal until a signal is received. Once the transmitter receives the RCC signal it will transmit the signal to the monitor. On the monitor the RCC icon will be displayed, if the monitor doesn't receive the RCC signal or loses the signal the RCC icon will not be display.

Note: Wait two minutes before re-insert the batteries of transmitter for proper reset.

Note: The best condition for reception is at night, between midnight and 6:00am – when there is less atmospheric interference.

Positioning

Once you have verified that all of the components of the weather station are working, they can be positioned in their permanent places. Before permanently mounting, make sure that all components work properly together at their chosen mounting or standing locations. If e.g. there appear to be problems with the 915 MHz radio transmission, they can mostly be overcome by moving the mounting locations.

Note: Commonly the radio communication between receiver and transmitter in the open field can reach a distance of up to 330 feet providing that there are no interfering obstacles such as buildings, trees, vehicles, high voltage lines, etc.
Radio interferences such as PC screens, radios or TV sets can, in bad cases, entirely cut off radio communication. Please take this into consideration when choosing standing or mounting locations.

Setting Up

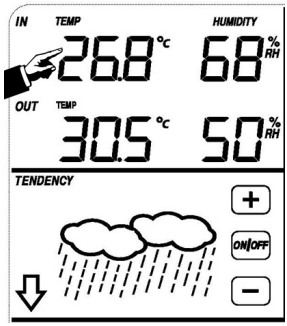
Note: Because of the default settings already determined by the manufacturer it may not be necessary for the majority of users to perform – except the Relative Air Pressure (see further down) - any further basic settings. Changes, however, can be easily made.

For basic settings, the following menu is started by touching the Touch Screen in the desired display area.

The basic settings can now be performed in the following successive order:

Note: setting procedure can be exited at any time by touching any other function area (except “+”, “-” or “ON/OFF”).

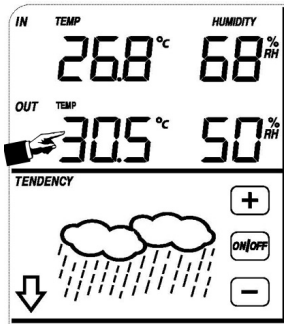
indoor temperature



Activate the indoor temperature related setting by

1)Touch the INDOOR TEMPERATURE section, + button and − button will be flashing. Touch the + button or − button to Shift the display unit between ℃ and ℉
2)Touch the INDOOR TEMPERATURE section again to set the indoor temperature high alarm function, the +, ON/OFF and − button will be flashing, HI AL icon will light up. Touch the+ button or − button to change the value, hold the+ button or − button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
3)Touch the INDOOR TEMPERATURE section the third time to set the indoor temperature low alarm function, the +, ON/OFF and − button will be flashing, LO AL icon will light up. Touch the+ button or − button to change the value, hold the+ button or − button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
4)Touch the INDOOR TEMPERATURE section the fourth time to display maximum indoor temperature record, the maximum records will be flashing, MAX icon will light up as well. Hold the flashing max value for 3s, the maximum value will be reset to current reading.
5)Touch the INDOOR TEMPERATURE section the fifth time to display minimum indoor temperature record, the minimum records will be flashing, MIN icon will light up as well. Hold the flashing min value for 3s, the minimum value will be reset to current reading.

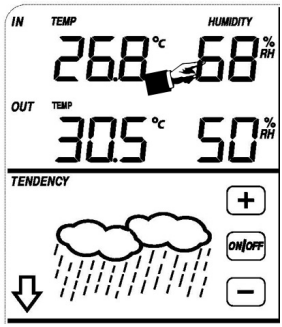
outdoor temperature



Activate the outdoor temperature related setting by

1)Touch the OUTDOOR TEMPERATURE section, + button and – button will be flashing. Touch the + button or – button to Shift the display between Outdoor Temperature, Wind Chill and Dew Point.
2)Touch the OUTDOOR TEMPERATURE section again, + button and – button will be flashing. Touch the + button or – button to Shift the display unit between ℃ and ℉
3)Touch the OUTDOOR TEMPERATURE section the third time to set the outdoor temperature high alarm function, the +, ON/OFF and – button will be flashing, HI AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
4)Touch the OUTDOOR TEMPERATURE section the fourth time to set the outdoor temperature low alarm function, the +, ON/OFF and – button will be flashing, LO AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
5)Touch the OUTDOOR TEMPERATURE section the fifth time to display maximum outdoor temperature record, the recorded maximum value will be flashing, MAX icon will light up. Hold the flashing max value for 3s, the maximum value will be reset to current reading.
6)Touch the OUTDOOR TEMPERATURE section the sixth time to display minimum outdoor temperature record, the recorded minimum value will be flashing, MIN icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Indoor humidity

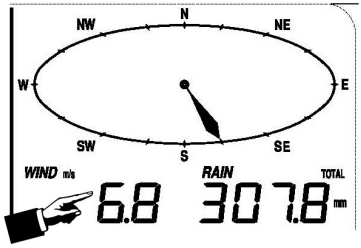


Activate the indoor humidity related setting by

1)Touch the INDOOR HUMIDITY section again to set the indoor humidity high alarm function, the +, ON/OFF and – button will be flashing, HI AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
2)Touch the INDOOR HUMIDITY section again to set the indoor humidity low alarm function, the +, ON/OFF and – button will be flashing, LO AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
3)Touch the INDOOR HUMIDITY section the third time to display maximum indoor humidity record, the recorded maximum value will be flashing, MAX icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.
4)Touch the INDOOR HUMIDITY section the fourth time to display minimum indoor humidity record, the recorded minimum value will be flashing, MIN icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Outdoor humidity
Procedures and settings are similar to Indoor humidity

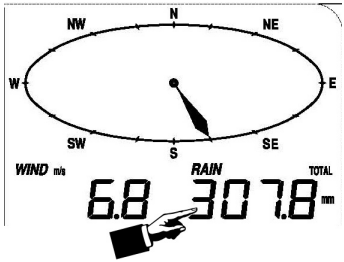
Wind speed



Activate the wind related setting by

1)Touch the WIND SPEED section, + button and – button will be flashing. Touch the + button or – button to Shift the display between Wind Average Speed and Gust Speed.
2)Touch the WIND SPEED section again, + button and – button will be flashing. Touch the + button or – button to select wind speed unit between km/h, mph, m/s, knots, bft
3)Touch the WIND SPEED section the third time to set the high alarm function, the +, ON/OFF and – button will be flashing, HI AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
4)Touch the Wind SPEED section the fourth time to set wind direction alarm function, the wind direction arrow will start to flashing. Touch + or – to select desired alarm for wind direction, press ON/OFF to enable or disable the wind direction alarm.
5)Touch the Wind SPEED section the fifth time to display maximum wind speed record, the recorded maximum value will be flashing, MAX icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.

Rain



Activate the rain related setting by

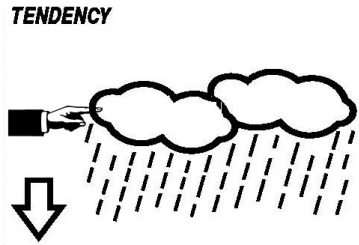
1)Touch the rain section, + button and – button will be flashing. Touch the + button or – button to Shift the display between 1h,24h,week,month and total rain.
2)Touch the rain section again, + button and – button will be flashing. Touch the + button or – button to select rain fall unit between mm,inch.
3)Touch the rain section the third time to set the high alarm function, the +, ON/OFF and – button will be flashing, HI AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to

choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).

4)Touch the rain section the fourth time to display current maximum rain fall record. Touch the rain section for 3s will reset the maximum rain fall value to current value.

5)Touch the rain section the fifth time to **reset rain fall value to 0** by pressing the rain section for 3s, then 1h,24h,week,month and total rain will be reset to 0.

Weather forecast

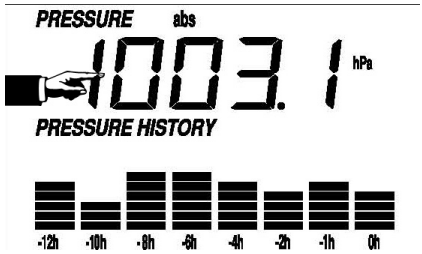


1)Touch the WEATHER FORECAST section, + button and – button will be flashing. Touch the + button or – button to Shift the display between SUNNY, PARTLY CLOUDY and CLOUDY, RAINY icon

2)Touch the WEATHER FORECAST section again, + button and – button will be flashing. Touch the + button or – button to set the pressure threshold from 2-4hPa(default 2hPa)

3)Touch the WEATHER FORECAST section the third time, + button and – button will be flashing. Touch the + button or – button to set the storm threshold from 3-9hPa(default 4 hPa)

Pressure



1)Touch the PRESSURE section, + button and – button will be flashing. Touch the + button or – button to Shift the display between Absolute pressure and Relative pressure.

2)Touch the PRESSURE section again, + button and – button will be flashing. Touch the + button or – button to Shift the display unit between hPa, inHg and mmHg.

3)Touch the PRESSURE section the third time to set the Relative Pressure value. The + and – button will be flashing, rel icon will light up. Touch the + button or – button to change the value, hold the + button or – button for 3s to change the number in great step.

4)Touch the PRESSURE section the forth time to set the pressure high alarm function, the +, ON/OFF and – button will be flashing, HI AL icon will light up. Touch the + button or – button to change the value, hold the + button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).

5)Touch the PRESSURE section the fifth time to set the pressure low alarm function, the +, ON/OFF and – button will be flashing, LO AL icon will light up. Touch the+ button or – button to change the value, hold the+ button or – button for 3s to change the number in great step. Touch the ON/OFF button to choose the alarm on or off (if alarm is enabled, the speaker icon will be turned on indicating the alarm function has been enabled).
6)Touch the PRESSURE sections the sixth time to display maximum pressure record, to display maximum pressure, the recorded maximum value will be flashing, MAX icon will light up as well. Hold the maximum value for 3s, the maximum value will be reset to current reading.
7)Touch the PRESSURE section the seventh time to display minimum pressure record, to display minimum pressure record, the recorded minimum value will be flashing, MIN icon will light up as well. Hold the minimum value for 3s, the minimum value will be reset to current reading.

Note: when absolute pressure is selected, step 3 will be skipped since absolute pressure is selected for display.

Pressure bar graph

Touch the PRESSURE BAR GRAPH section and then press + or – to toggle the bar graph time scale between 12hrs or 24 hrs for pressure history.

Time

1)Touch the TIME section, + button and – button will be flashing. Touch the + button or – button to adjust the contrast level from 0 to 8.(default 5).
Note: At Europe, 0 for GMT+1 time zone, 1 for GMT+2 time zone, -1 for GMT time zone.
At America, -4 for Atlantic time zone, -5 for Eastern Time zone, -6 for Central Time Zone, -7 for Mountain Time zone, -8 for Pacific time zone, -9 for Alaska time zone, -10 for Hawaii time zone.
2)Touch the TIME section again, + button and – button will be flashing. Touch the + button or – button to set the timezone.
3)Touch the TIME section again the third time, + button and – button will be flashing. Touch the + button or – button to Shift the 12/24 hours format.
4)Touch the TIME section the fourth time , + button and – button will be flashing.
Touch the + button or – button to set the DST ON or OFF

Note: "DST OFF" indicates that the feature is off and the internal real time clock will not change times automatically. "DST ON" indicates that the feature is on and the internal real time clock will change times according to the DST time schedule automatically. Some locations (Arizona and parts of Indiana) do not follow Daylight Saving Time, and should select "DST OFF".
5)Touch the TIME section the fifth time to set the hour, the + and – button will be flashing.
Touch the+ button or – button to change the value.
6)Touch the TIME section the sixth time to set the Minute, the + and – button will be flashing.
Touch the+ button or – button to change the value.

Date

1)Touch the DATE section, + button and – button will be flashing. Touch the + button or – button to shift between alarm time, date and week date.
2)Touch the DATE section again, + button and – button will be flashing. Touch the + button or – button to Shift between DD-MM format and MM-DD format for the date.
3)Touch the DATE section the third time, + button and – button will be flashing. Touch the + button or – button to set the year. Hold the+ button or – button for 3s to change the number in great step.
4)Touch the DATE section the fourth time, + button and – button will be flashing. Touch the + button or – button to set the month. Hold the+ button or – button for 3s to change the number in great step.
5)Touch the DATE section the fifth time, + button and – button will be flashing. Touch the + button or – button to set the day. Hold the+ button or – button for 3s to change the number in great step.
6)Touch the DATE section the sixth time, + button and – button will be flashing. Touch the + button or – button to set the alarm hour. Hold the+ button or – button for 3s to change the number in great step.
7)Touch the DATE section the seventh time, + button and – button will be flashing. Touch the + button or – button to set alarm minute. Hold the+ button or – button for 3s to change the number in great step. Touch ON/OFF to enable or disable time alarm function.

Memory

1) Touch Memory section to activate history data toggle display, + button and – button will be flashing. Press – to toggle forward to see earlier weather history data together time stamp, press + to see later history weather data. When history data displayed, the corresponding time will be displayed at the time section area(History data saving interval can only be changed using the PC software that comes with this product, the default history data saving time interval is preset to 30 minutes prior to shipment).
2) Touch Memory section again will trigger the memory clear procedure: the word of “CLEAR” will be flashing, the full memory usage icon will be flashing. Press and hold the memory full icon for 3 seconds will clear the memory.

PC Connection

As an important feature in addition to the display on the Touch Screen, the Weather Station allows the read-out of all measured and displayed time and weather data in form of complete history data sets on a PC.

Data Storage

For a comprehensive weather history, the Display Console allows the internal storage of up to 4080 complete sets of weather data with time and date. The base station will loose all weather data if an interruption of power supply.
In case the memory capacity of the Display Console is exhausted the oldest data sets stored will be overwritten by the new ones entered.

Data Recall

Certain weather data or setting values can only be read out, processed, and displayed by means of a PC. Also the settings of the storing intervals from 5 minutes to 240 minutes for the storage of data sets can only be performed by means of a PC.

Connections and Software

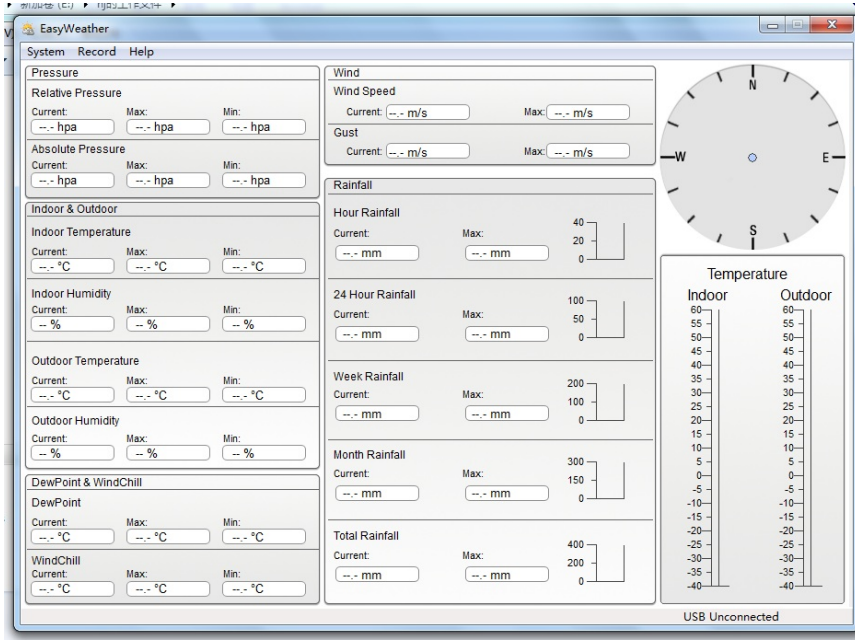
The wiring between Display Console and PC takes place by means of an included USB cable. The EasyWeather software package, also included in the shipping contents, must be installed on the PC.
This software allows the display of all present weather data with graphic symbols. It also allows the display, storage, and printing of history data sets, whose volume exceeding the maximum 4080 data sets of the Display Console is only limited by the capacity of the PC's main memory.

PC software installation

The installation of TP1080WC software is very simple: double click the setup.exe file and follow the steps popped up.

Make sure you are running the program under the administrator account of your windows PC platform. Otherwise the graphic function might not be working when graph display mode is needed to display all history data.

If you run the program for the first time, the current weather display will be displayed and at the sub line of the window, the program will show related information regarding the read of all history data into the PC. Please note however, when there is large amount of data is being uploaded, it will take a few minutes time before the system can respond to your setup settings. Otherwise it will display "read weather data fail" error message since the USB port is reading the data from the memory and the system is not able to respond any further job tasks.



When memory is full, it will take about two minutes to upload all history data into PC and it takes another two minutes to process all history data for graphic display.
Further detailed PC software user manual can be found from the help menu.

Specifications

Outdoor data

Transmission distance in open field	:	100m(300 feet)
Frequency	:	915MHz(North America)
Temperature range	:	-40˚C–65˚C(-40˚F to +149˚F)
Accuracy	:	+/- 1˚C
Resolution	:	0.1˚C
Measuring range rel. humidity	:	10%～99%
Accuracy	:	10%-29%: +/- 10% at 25˚C 30%-80% : +/- 5% at 25˚C 81%-99%: +/- 10% at 25˚C
Resolution	:	1%
Rain volume display	:	0 – 9999mm (show ––– if outside range)
Accuracy	:	+/- 10%
Resolution	:	0.3mm (if rain volume < 1000mm) 1mm (if rain volume > 1000mm)
Wind speed	:	0-160km/h(0~100mph) (show --- if outside range)
Accuracy	:	+/- 1m/s(wind speed < 10m/s) +/- 10%(wind speed > 10m/s)

Measuring interval outside transmitter	:	48 sec
Water proof level	:	IPX3

Indoor data

Measuring interval pressure / temperature	:	48 sec
Indoor temperature range	:	0˚C--50˚C (32℉ to + 122℉) (show --- if outside range)
Accuracy	:	+/- 1˚C
Resolution	:	0.1˚C
Measuring range rel. humidity	:	10%～99%
Accuracy	:	10%-29%: +/- 10% at 25˚C 30%-80% : +/- 5% at 25˚C 81%-99%: +/- 10% at 25˚C
Resolution	:	1%
Measuring range air pressure	:	300-1100hpa (8.85-32.5inHg)
Accuracy	:	+/- 3hpa under 700-1100hPa
Resolution	:	0.1hpa (0.01inHg)
Alarm duration	:	120 sec

Power consumption

Base station	:	3XAA 1.5V LR6 Alkaline batteries
Remote sensor	:	2xAA 1.5V LR6 Alkaline batteries
Battery life	:	Minimum 12 months for base station Minimum 24 months for thermo-hygro sensor

Remark: where outdoor temperature is lower than -20˚C, make sure proper type of batteries to be used to assure that the device can get enough power to maintain its function properly. Normal alkaline batteries is not allow to be used since when outdoor temperature is lower than -20 ˚C, the battery's discharging capability is greatly reduced.

Please help in the preservation of the environment and return used batteries to an authorized depot.

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EasyWeather PC Software User Manual

1.0 General Information

This Weather Station is a high quality, easy to use weather monitoring system that reads, displays and records the weather data from internal as well as external sensors. Besides the internally measured values for indoor temperature, indoor humidity and air pressure the outdoor sensor will take data for temperature and humidity, wind and rainfall. Operation of these units is by wireless transmission to the Display Console.

After installing the “EasyWeather” program on this CD-ROM, your PC can display all indoor data as well as the weather data from the Display Console received from the external sensors. For operation, simply use the USB cable supplied and connect the Display Console to the PC. From now on you can start to track current and history weather information at your finger tips.

2.0 System Requirements

To install the "EasyWeather" software onto your PC, the minimum requirements are as follows:

Operating System: Windows NT4 (Service Pack >= 6a), Windows 2000, Windows XP, Windows Vista. Windows 7, Windows 8

Internet Explorer 6.0 or above

Processor: Pentium III 500 MHz or above

Memory: at least 128MB, 256MB recommended

CD-ROM Drive

Display Console and PC must be connected by USB cable

3.0 Installation of the “EasyWeather” Software

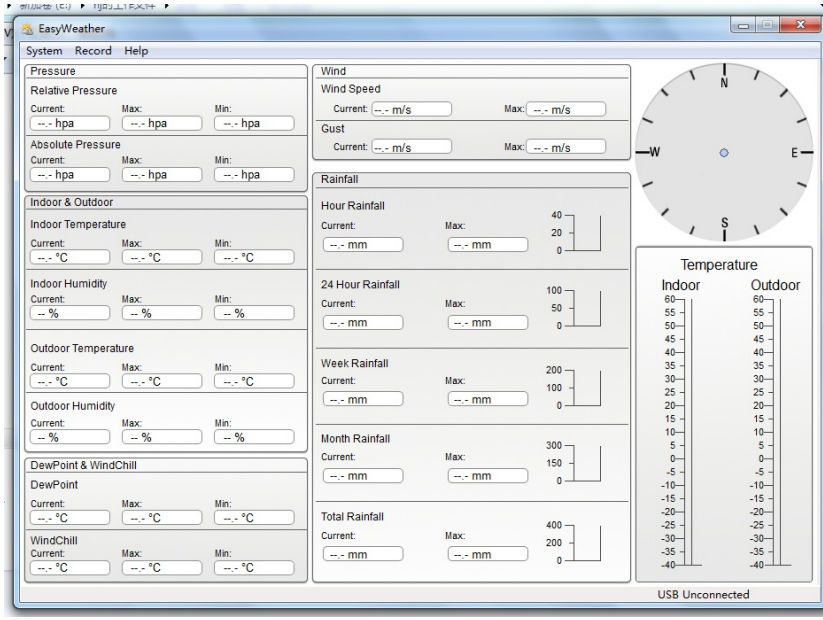
Firstly, the Display Console and the Outdoor Sensors should be connected and checked for correct function (see **Operation Manual for TP1080WC Touch Screen Weather Station** for setting up the Weather Station). After successful checking, install the “EasyWeather” software as follows:

1. Switch on your PC and insert the CD-ROM into the CD-ROM Drive.
2. Double click “"Easyweather.exe"”
3. Select the installation process language option and click ok
4. click next and select the destination folder(change directory when needed)
5. click next and select the shortcut folder(change directory when needed)
6. click next and select the additional tasks.
7. Click next and setup is now ready to begin installing Easyweather on your computer.
8. Click install, software will be installed automatically
9. Press Finish to finish the installation process and exit. If you tick “Launch Easyweather” the software will start to run.
10. From “Start—All Programs—EasyWeather” path and double click the “EasyWeather” icon to start application.

Note: The graphic function needs the software to be installed under the administrator account. If it is installed under limited user accounts, the graphic function of the software might not be working correctly.

4.0 Basic Settings of the “EasyWeather” Software

After the “EasyWeather.exe” program has been started, the following main window will appear on the PC screen:

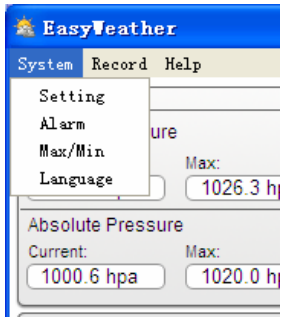


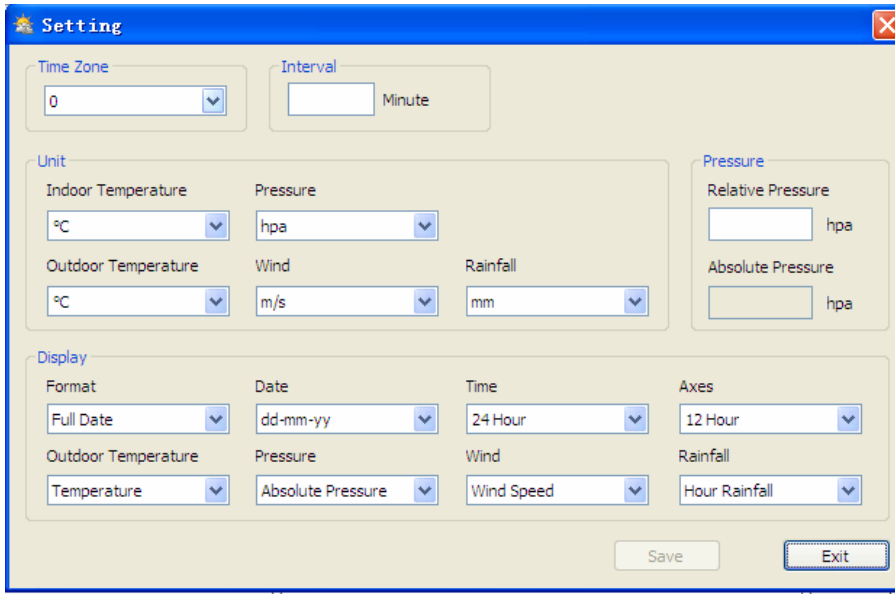
All the settings from the display console is mirrored into the PC software, so once you have done your setting on the display console, then you don’t need to make any setting changes on the PC software. However you can still easily make any setting changes you wanted from the PC and download the changes into the display console (the setting changes will be refreshed after 1 minute).
When display console is connected to PC, it shows “USB Connected” at the bottom of screen.
If no display console is connected, it shows”USB Unconnected”.

Tool Bar: The tool bar at the top of the screen has 3 options; System, Record and Help.

4.1 System option

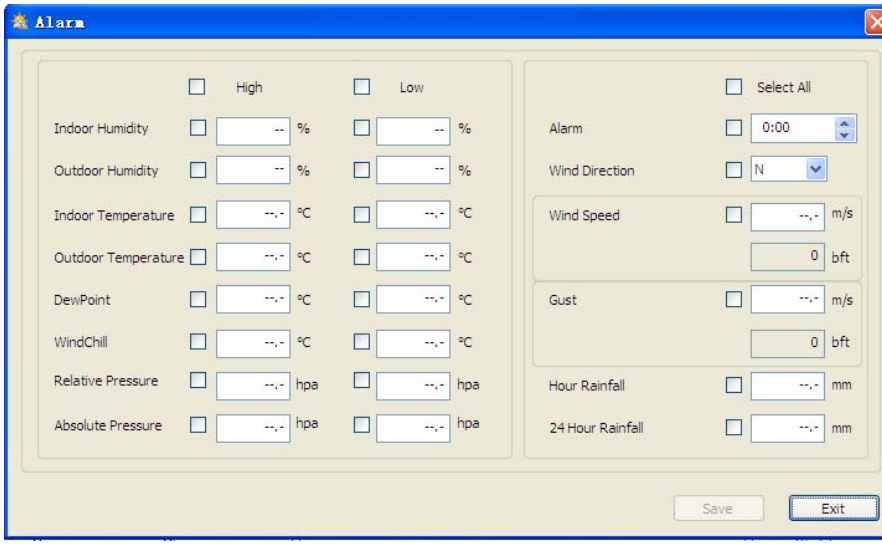
4.1.1 Click System button, enters the Setting menu





This section is used to set up PC software display, display console units. Once you made your choice, press Save to make the setting effective.

4.1.2 Click Alarm button, enters the Alarm menu

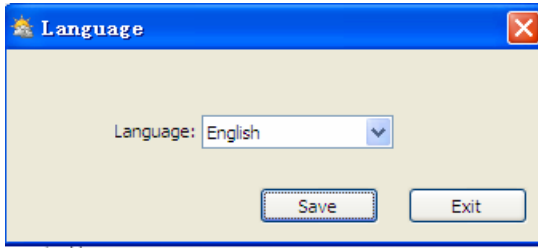


This section is used to set the desired time, high or low alarm value for the base unit, as well as able or disable the corresponding alarm function. Once you made your choice, choose Save to make the setting effective. If you don't want to make any change, just press Cancel and exit without change.

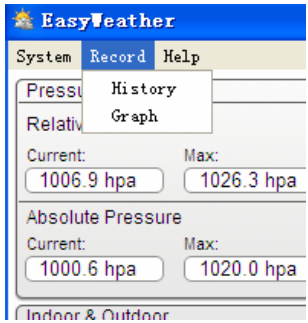
4.1.3 Click Max/Min button, enters the Max/Min menu

This section is used to display the recorded min and max value recorded with time stamp. Min/Max reset can only be done through key operation on the display console.

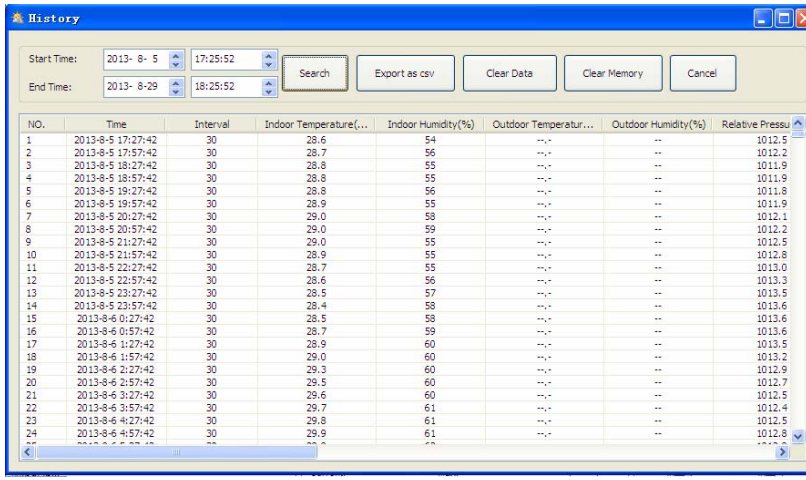
4.1.4 Click Language button, enters the Language menu



4.2 Record option



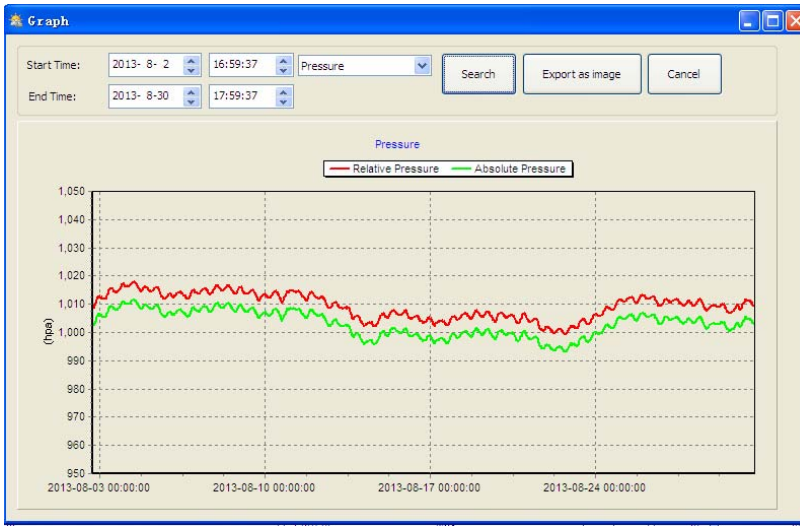
4.2.1 Click History button, enters the History menu



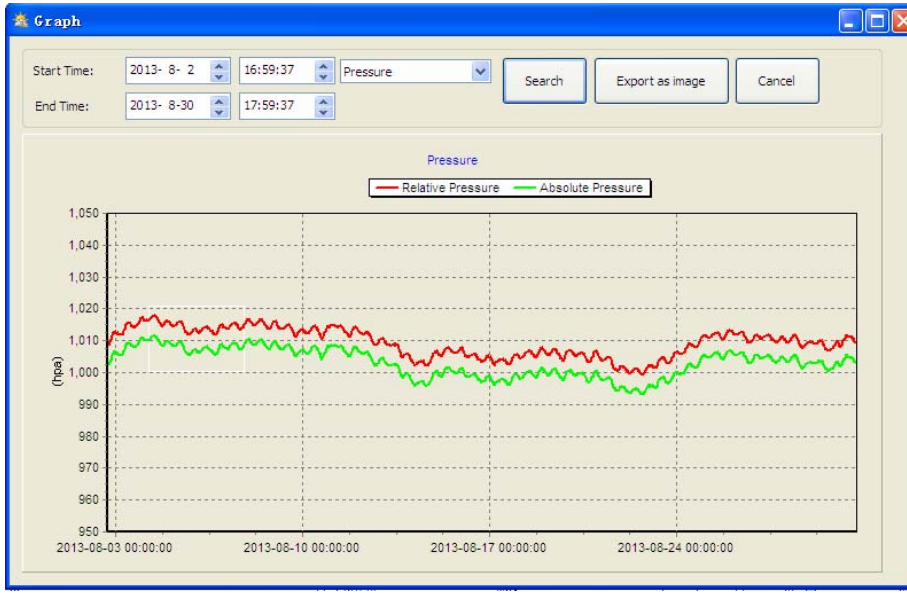
NO.	Time	Interval	Indoor Temperature(...	Indoor Humidity(%)	Outdoor Temperatur...	Outdoor Humidity(%)	Relative Pressu
1	2013-8-5 17:27:42	30	28.6	54	--.-	--	1012.5
2	2013-8-5 17:57:42	30	28.7	56	--.-	--	1012.2
3	2013-8-5 18:27:42	30	28.8	55	--.-	--	1011.9
4	2013-8-5 18:57:42	30	28.8	55	--.-	--	1011.9
5	2013-8-5 19:27:42	30	28.8	56	--.-	--	1011.8
6	2013-8-5 19:57:42	30	28.9	55	--.-	--	1011.9
7	2013-8-5 20:27:42	30	29.0	58	--.-	--	1012.1
8	2013-8-5 20:57:42	30	29.0	59	--.-	--	1012.2
9	2013-8-5 21:27:42	30	29.0	55	--.-	--	1012.5
10	2013-8-5 21:57:42	30	28.9	55	--.-	--	1012.8
11	2013-8-5 22:27:42	30	28.7	55	--.-	--	1013.0
12	2013-8-5 22:57:42	30	28.6	56	--.-	--	1013.3
13	2013-8-5 23:27:42	30	28.5	57	--.-	--	1013.5
14	2013-8-5 23:57:42	30	28.4	58	--.-	--	1013.6
15	2013-8-6 0:27:42	30	28.5	58	--.-	--	1013.6
16	2013-8-6 0:57:42	30	28.7	59	--.-	--	1013.6
17	2013-8-6 1:27:42	30	28.9	60	--.-	--	1013.5
18	2013-8-6 1:57:42	30	29.0	60	--.-	--	1013.2
19	2013-8-6 2:27:42	30	29.3	60	--.-	--	1012.9
20	2013-8-6 2:57:42	30	29.5	60	--.-	--	1012.7
21	2013-8-6 3:27:42	30	29.6	60	--.-	--	1012.5
22	2013-8-6 3:57:42	30	29.7	61	--.-	--	1012.4
23	2013-8-6 4:27:42	30	29.8	61	--.-	--	1012.5
24	2013-8-6 4:57:42	30	29.9	61	--.-	--	1012.8

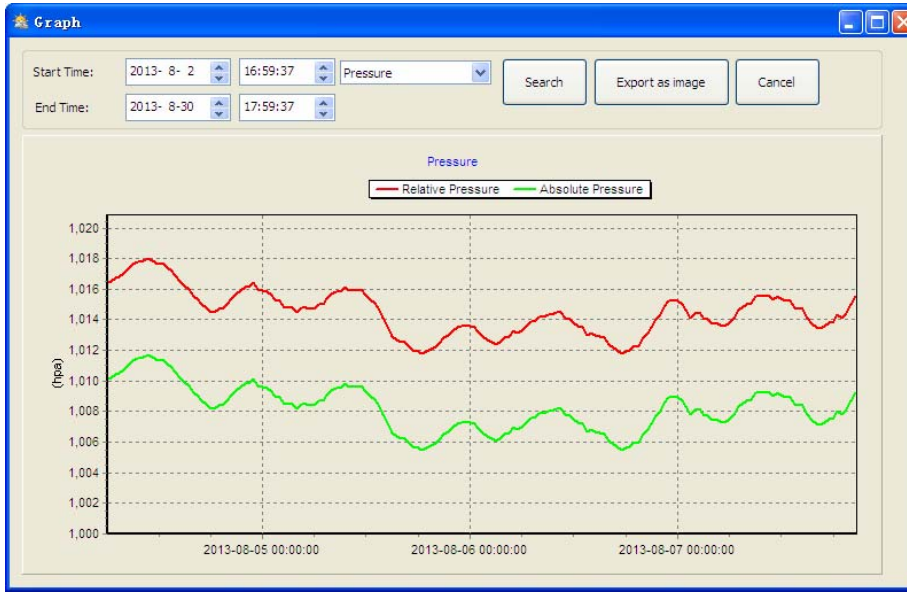
This section is used to display recorded history data in a spread sheet. If you wanted to see all history data in a desired time period, choose the time duration and press Search to reload the history data. With the Export button, you can export the selected history data into excel format file for other application purpose.
When memory on display console is full, press “Clear Memory” button to refresh the memory space on the display console (remember to upload all data before pressing this button).
If you wanted to start a new weather history record, press “Clear Data” button to clear up the data base, all history weather data will be deleted（if you would like to keep a back up history file before deleting all weather data, you can make a copy of the “EasyWeather.mdb” file into another folder or just rename the “EasyWeather.mdb” file, such as “Jan-07.dat”, for future reference.）

4.2.2 Click Graph button, enters the Graph menu



In this section, you can see the history data plotted in graph format for easier observation. If you want to see more details, just use your mouse to select the area you wanted and the display will be automatically updated in more detailed scale:



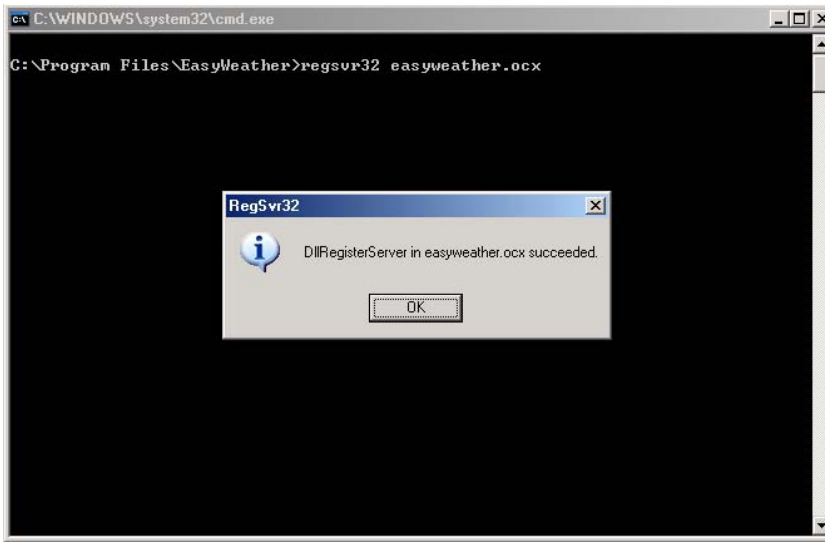


With the Export as image button, you can export the selected graph into .jpeg format file.
You can change the Y axis by scrolling the mouse up and down roller.

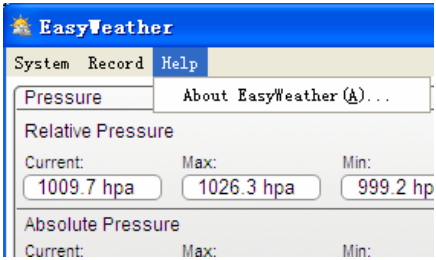
What to do if graph function is not working

This is the most encountered problem with this software. To make the graph function working properly, please check the following step:

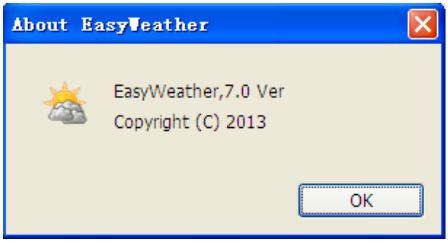
1, find the folder where the “EasyWeather.exe” file is located
2. Create a file name “reg_graph.bat” file with wordpad or notepad editor program
3. Type “regsvr32 easyweather.ocx” and save the reg_graph.bat file
4. Double click “reg_graph.bat” file and it should register the graphic driver again. If successful, then the following window will be displayed:



4.3 Help option



4.3.1 Click About EasyWeather button, enters the About menu



Special Notes about time synchronization between PC and display console:

The PC software obtained its own time scale through the time interval marker from the display console history data, and the PC software automatically synchronizes the weather data with a time stamp calculated. Thus the history data file can have different time when the PC time and display console time is not same. In order to make the time scale correct, remember to set the PC time and display console time same, and further to this, no weather data is allowed to be missed or over-written. If history weather memory on the display console is cleared by manual setting, then the history weather data since last uploading is lost permanently.

Before memory is used up(memory icon on LCD display showing 100% full), remember to upload weather history data to PC periodically.

If there is a reset happened for the rain fall on the display console, then there will be rain fall value discrepancy between PC and display console.

Legal Notes

- We reserve the right to delete or change any image whether or not purposely uploaded onto the server by a user of the TP1080WC and the EasyWeather software products.
- The EasyWeather software products are protected by copyright laws and international copyright treaties as well as other intellectual property laws and treaties.
- You may not copy the printed materials accompanying the products.